

ग्रामीण कृषि मौसम सेवा समाचार GKMS-News



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Agricultural Meteorology Division
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Ministry of Earth Sciences

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National Activities

Agromet Advisory Services Division (AASD), IMD, New Delhi organised a meeting "to discuss support from State Agricultural Department for Effective Implementation of GKMS Scheme for the benefit of Farming Community in the country" chaired by Dr. Madhavan Nair Rajeevan, Secretary, Ministry of Earth Sciences (MoES) and Dr. Trilochan Mohapatra, Secretary, Department of Agricultural Research and Education (DARE) & the Director General, Indian Council of Agricultural Research on 27th April 2021. The meeting was attended by all the officers of AASD, New Delhi, Agrimet (Pune), Senior State Agricultural Officers *viz.* Principal Secretaries, Joint Secretaries, etc. and representatives of various AMFUs and DAMUs across the country.

Meetings/Workshop/Seminar/Training attended by officers of AASD, New Delhi, Agrimet, Pune, RMCs/MCs, AMFUs and DAMUs:

- **Dr. K. K. Singh, Scientist-G and Head (Agromet), AASD, India Meteorological Department (IMD), New Delhi,** participated in the following meetings:
 - "Third subcommittee meeting of production forecast for Real-Time Information System for Agriculture Sector (RTISA) for finalization of the forecast of March 2021" under the Chairmanship of Sr. Economic and Statistical Advisor (Sr. E.S.A.) held on 13th April 2021 through the virtual mode.
 - Virtual meeting under the chairmanship of CEO, Pradhan Mantri Fasal Bima Yojana (PMFBY) on 5th May 2021 with members of National Level Technical Committee (NLTC) and Crop Specific Technical Sub-committee for Banana, Mango, Papaya, Guava, Sapota, Pomegranate, Cashew & Citrus Malta, Orange (Mandarin), Acid Lime & Mosambi (Sweet Orange) Crops to

discuss progress made on the analysis of proposed weather triggers and term sheet for *Kharif* 2021 and *Rabi* 2021-22 seasons for Maharashtra.

- The 5th meeting of 'Project Monitoring & Advisory Committee (PMAC)' of IMD through V.C. to monitor the periodic progress of the projects under Atmosphere & Climate Research-Modelling Observing Systems & Services (ACROSS Scheme) and to suggest suitable remedial measures for successful implementation of the activities on 31st May 2021. **Dr. S. D. Attri, Scientist-G, AASD, IMD, New Delhi**, also attended the meeting and presented the status and future plans of GKMS during this event.
 - The 1st Meeting of Standing Committee on Agriculture and Soils (SC-A & S) (under Space Application Management System) on 23rd June 2021 through virtual mode.
 - An executive council meeting organised by Dr. Ram Monohar Lohia Awadh Vishwavidyalaya, Ayodhya (U.P.) through V.C. mode on 26th June 2021.
 - The meeting regarding Sharing Experience on real time farmer feedback under GKMS which was attended by technical officers/ SMS-Agromet and Observers of various AMFUs and DAMUs of Uttar Pradesh on 30th June 2021.
- **Shri S. C. Bhan, Scientist-F, AASD, IMD, New Delhi** and **Dr. Sheshakumar Goroshi, Scientist-E** attended the meeting regarding Integrated IMD's Weather Forecasts with the electronic National Agriculture Market (e-NaM) on 14th April 2021 to provide weather forecast to different Yards (Mandis) in the country to secure/minimize losses in the agricultural produce lying in open in these yards due to extreme weather conditions.
- **Dr. Kripan Ghosh, Head (Agrimet) & Scientist-F, IMD, Pune, and Shri R. Balasubramanian, Scientist-E, Agrimet Division, IMD, Pune** attended the online meetings on
- "Restructured Weather Based Crop Insurance Scheme (RWBCIS)-Meet for citrus crop insurance deciding triggers" organised by Department of Agriculture, Co-operation and Farmers' Welfare (DAC&FW) on 28th May 2021.
 - WMO Seminar on "Enhancing the quality of climate information and services programme on Integrating climate risk information in climate action" on 2nd June 2021.
 - Meeting on "Agro AWS installation and data collection" organized by ASSD, New Delhi on 7th June 2021.
 - "International Conference on Disaster Risk Management" jointly conducted by Indian Meteorological Society, Pune & National Disaster Management Authority (IMSP & NDMA) from 30th June to 1st July 2021.
- **Shri R. Balasubramanian, Scientist-E, Agrimet Division, IMD, Pune** attended the following online meetings:
- Meeting on "GKMS in the country: present status and future activities" with Principal Secretaries (Agriculture) of various states organized by AASD, IMD, New Delhi on 27th April 2021.
 - Meeting on "SASCOF-19 Climate Services User Forum (CSUF) for Agriculture, Water and Disaster Risk Reduction Sectors" on 27th April 2021 as part of Nineteenth Session of South Asian Climate Outlook Forum (SASCOF-19) jointly organized by World Meteorological Organization (WMO), IMD, Regional Integrated Multi-Hazard Early Warning System (RIMES), Met-Offices and ARRCC.

- Meeting for discussion on "Centre of Excellence (CoE)-IoT in Agriculture/Agri-Tech" organized by AASD, IMD, New Delhi on 29th April 2021.
 - Steering committee meeting of "National Adaptation Fund for Climate Change project" organised by Vasundhara Watershed Project, Department of Agriculture, Maharashtra State Government on 6th May 2021.
 - Meeting under Chairmanship of Secretary, MoES to review Monsoon Preparedness during 2021 on 12th May 2021.
 - Block Level Meeting of Agromet Advisories by Project on Climate Resilient Agriculture (PoCRA), by Shri Vijay Kalekar, Agronomist of PoCRA on 18th May 2021.
 - Meeting on "State Level *Kharif* crops" organised by Mantralaya, Mumbai about Krishi Pashuvaradhan, Dairy Development and Fisheries on 20th May 2021.
 - Online meeting regarding loss and damage due to unseasonal rainfall organised by National Food Security Mission (NFSM), Commissionerate of Agriculture Shivajinagar on 31st May 2021.
- **Dr. Ashutosh Kumar Misra, Scientist-D, and Dr. Asha Latwal, Scientist-C, Agrimet Division, IMD, Pune attended the following online meetings:**
- Meeting on "Effective implementation of Gramin Krishi Mausam Seva (GKMS) scheme for the benefit to the farming community in the country" under the chairmanship of Secretary- MoES, DG-ICAR, and DG IMD, along with principal secretaries (Agriculture) of various states organized by AASD, IMD, New Delhi on 27th April 2021.
 - Webinar on "Integrating Climate Risk Information into Climate Action: Using climate science-based information for reducing climate-related risks and maximizing opportunities" organized by WMO on 2nd June 2021.
 - The meeting regarding Sharing Experience on real time farmer feedback under GKMS attended by technical officers of AMFUs and SMS-Agromet of DAMUs and all the Observers in Uttar Pradesh on 30th June 2021.
- **Shri R. Balasubramanian, Scientist-E and Dr. Ashutosh Kumar Misra, Scientist-D, Agrimet Division, IMD, Pune attended** Virtual interface meeting on "Enhancing the preparedness of Agricultural Contingencies in *Kharif* 2021" for Maharashtra organized by ICAR, Central Research Institute for Dryland Agriculture (CRIDA) and State Dept. of Agricultural, Government of Maharashtra on 8th June 2021.
- **Dr. Asha Latwal, Scientist C, Agrimet Division, IMD, Pune, attended online meeting** on status of Use of satellite products for Agromet Advisory services with Officials of AMFUs, IMD and SAC Ahmedabad on 16th April 2021.
- **Dr. Ashutosh Mishra, Scientist-D** attended an online meeting on "Restructured Weather Based Crop Insurance Scheme (RWBCIS)-Crop specific Technical subcommittee for turmeric crop " organised by The Department of Agriculture, Co-operation and Farmers' Welfare (DAC & F.W.) on 31st May 2021 and **Dr. Asha Latwal, Scientist-C** attended the same meeting for sapota crop on 1st June 2021.
- **Dr. M.N. Harish, SMS (Agrometeorology), DAMU, Kodagu, Karnataka** attended meeting to discuss disaster management for 2021 Monsoon season in Kodagu district at Joint Director of Agriculture Office, Madikeri taluk on 11th May 2021 and a webinar on "A look into weather forecast and related apps in agriculture" at KVK, Gonikoppal on 26th June 2021.

Lectures

- **Dr. K. K. Singh, Head (Agromet) and Scientist-G, AASD, IMD, New Delhi** delivered lecture on "Agromet Advisory Service (AAS) in India: Recent Developments and Future Plan" highlighting Agromet DSS in Webinar Series on "Decision Support System (DSS) for Understanding and Reducing Climate Risks" organized by The Regional Integrated Multi-Hazard Early Warning System (RIMES), Bangkok on 4th May 2021.
- **Shri R. Balasubramanian, Scientist-E, Agrimet Division, IMD, Pune,** gave a presentation on "Operational Agrometeorological Services for the farmers of Maharashtra State" during the Journalist workshop on "Recent Advancement in Meteorology & Climate services" organized by Indian Meteorological Society, Pune (IMSP) during 17-19 June 2021.
- **Smt. Ningshiyangerla Walling, SMS(Agrometeorology), KVK, Mokokchung Nagaland** delivered a lecture on "Agromet Advisory Services, its application in the wake of climate change" during the training programme on "Poultry Management" at KVK, Mokokchung, Yisemyong, Mokokchung district, Kubolong block on 5th May 2021. 
- **Shri. Ejaful Ahmed, SMS (Agrometeorology), KVK Cachar, Assam** delivered a lecture on "How to utilize Agromet Advisories on Frontline Demonstration on Application of ZnSO₄ and Borax in *Sali* paddy" on 24th June 2021 at KVK Cachar. 
- **Dr. Pooja Gupta Soni, SMS, KVK, Gurugram, Haryana** delivered lectures on "Sustainable Management of saline soil and saline water" on the occasion of World Environment Day on 5th June 2021 and "Weather forecast helpful in honey production" on the occasion of world honey bee day on 20th May 2021.

Publications

- **AASD, IMD New Delhi: R. S. Singh, K.K. Singh, A. H. Bhengra, S.M. Singh, Ganesh Prasad, Priyanka Singh, Mamta Rana, and G.B. Gohain,** Potential yield and yield gap analysis of sugarcane (*Saccharum officinarum*) using the DSSAT-CANEGRO model in different districts of Uttar Pradesh, India in the recent issue of *Journal of Agrometeorology*.
- **Dr. Mamta, SMS (Agrometeorology), DAMU, Kannauj, Uttar Pradesh:** Mamta, Ram Niwas, M L Khichar, Anurag and Anil Kumar (2021) Spatial distribution of climate change rainfall indices for Haryana, India during the periods from 1985-2014." Proceeding of Virtual conference on "Strategic Reorientation For Climate Smart Agriculture pp: 176:178.
- **Dr. S. Sridhara Principal Nodal Officer and Dr. Pradeep Gopakkali, Technical Officer, AMFU, Navile, Shivamogga Karnataka:**
 - Pavithra A. Honnaiah, **Shankarappa Sridhara, Pradeep Gopakkali,** Nandini Ramesh, Eman A. Mahmoud, Fatima H. Alkallas, Shaimaa A.M. Abdelmohsen, Diaa O. El-Ansary, Hosam O. Elansary, 2021, Influence of sowing windows and genotypes on growth, radiation interception, conversion efficiency and yield of guar. *Saudi J. Biol. Sci.*, 1-8.

- Shilpa Cherian, **Shankarappa Sridhara**, Konapura Nagaraja Manoj, **Pradeep Gopakkali**, Nandini Ramesh, Abdullah A. Alrajhi, Ahmed Z. Dewidar and Mohamed A. Mattar, 2021, Impact of El Niño Southern Oscillation on Rainfall and Rice Production: A Micro-Level Analysis. *Agronomy*, 11: 1-18.
- **S. Sridhara**, Chaithra, G. M. and **Pradeep Gopakkali**, 2021, Comparison of drought indices for drought assessment and monitoring in Chitradurga district of Karnataka, India. *J. Agrometeorol.* 23(2):221-227.
- **S. Sridhara** and **Pradeep Gopakkali**, 2021, Trend and Change Point Detection of Seasonal Rainfall for Effective Crop Planning Over Southern Transition Zone of Karnataka, India. *J. Agrometeorol.*23(3) (Accepted for the upcoming issue)

➤ **AMFU, Bhachau, Kachchh, Gujarat published folder in Gujarati language for farming community :**

- "Krushhi Havaman Vaidhashala Ane Tema Upyogi Thata Sadhno Visheni Mahitee."
- "Krushhi Ne Lagta Vividh Portalo, Krushhi Havaman Ne Lagti Vividh Mobile Application".
- "Krushhi Ma Havaman Aagahi Ni Agtyata” .



➤ **KVK, Kosbad Hill, Palghar, Maharashtra published brochure in Marathi language for farmers to know the activities going on under GKMS–DAMU and popularization of MEGHDOOT and DAMINI Application.**



➤ **KVK, ICAR-NDRI, Karnal Haryana : An article entitled “गर्मी के मौसम में पशुपालन व प्रबंधन” published in esteemed magazine “खेती”**



➤ **Dr. Yogesh Kumar SMS (Agrometeorology) KVK, ICAR-NDRI, Karnal Haryana:** Yogesh Kumar, Raj Singh, and Anil Kumar. 2020, "Performance of SUBSTOR-potato model on growth and yield of potato varieties under different planting dates in a sub-tropical environment" *Journal of Agrometeorology* 23 (2): 213-220 (June 2021)

➤ **Smt. Rutuparna Paikaray, SMS (Agrometeorology), DAMU KVK, Angul, Odisha:**

- SBB Behera, R Paikaray, A Baliarsingh, AKB Mohapatra and BS Rath 2021, "Morphological response of green gram under different climate-resilient crop management practices" *The Pharma Innovation Journal*, 10(2): 399-403.
- K Singh, R Paikaray, SBB Behera, A Baliarsingh, A Nanda and AKB Mohapatra 2021 Characterization of temporal variability and trends in seasonal and annual rainfall of north-central plateau land zone, Odisha. *The Pharma Innovation Journal*; SP-10(2): 85-90.

➤ **AMFU Jharnapani, Medziphema. Nagaland:** An article has been published in The Morung Express dailies on the topic- Rainfall deficiency: AMFU for advanced Agro-tech intervention on 19th June 2021.



Training

- **DAMU Tiptur Karnataka** conducted three online training programmes for farmers on
 - "Weather-based Agromet Advisory for pre-monsoon crops" on 25th May 2021;
 - "Weather-based Agromet Advisory on Ragi and Redgram cultivation" on 3rd June 2021 and
 - "Weather-based Agromet Advisory under scanty rainfall condition" on 25th June 2021.
- **Dr. Yogesh Kumar, SMS (Agrometeorology) KVK, ICAR-NDRI, Karnal, Haryana** participated in three days training program on "Climate change and adaptation" jointly organized by KVK, ICAR-NDRI, Karnal, Haryana and National Institute of Agricultural Extension Management, Hyderabad on 9th April 2021.



Popularization of GKMS

- **Dr. Fakeerappa Arabhanvi, SMS(Agromet), DAMU, Koppal, Karnataka,** participated in T.V. programme Dighvijay 24 x 7 news on "Weather forecast and Agromet Advisory to farmers of Koppal District" on 16th and 21st May 2021.
- **DAMU, Koppal, Karnataka** made a Video on "Weather forecast and Agromet Advisory Service to farmers, DAMINI lightning alert app and Importance of Seed treatment concerning crop weather conditions."
- **Dr. Pradeep Gopakkali, Technical officer, AMFU, Navile, Shivamogga Karnataka,** gave a Radio talk on "Climate change, weather forecasting & its use and weather apps MEGHDOOT and DAMINI" to All India Radio Bhadravathi on 30th June 2021.
- **Shri. Sudipta Thakur, SMS (Agrometeorology), DAMU, Purulia, West Bengal** gave a Radio talk on "Soil in different Agro-climatic Zone of West Bengal" aired on Akashvani Moitree on 17th April 2021.



- **Officer of DAMU, Valsad, Gujarat,** gave T.V. talk on "Forecast for cyclone Tauktae" and special Agromet Advisory bulletin issue for Valsad district was telecast on Etv Bharat news channel, and youtube channel. Special advisory sent during the cyclone was highly appreciated by farmers, especially for the paddy crop.



- **Dr. M. N. Harish, SMS (Agrometeorology), DAMU, Kodagu Karnataka,** gave a radio talk on "Agro AWS functioning and services provided by DAMU, Kodagu" on 19th April 2021 and other on "Weather Advisory Services in relation to Organic Farming" on 6th May 2021 in Kisan Vani program from Air Madikeri Station. Around 5000 farmers listened to both the programs.

Achievement

- **Shri M. P. Yadulwar, SMS (Agromet), KVK, Buldhana, Dr. PDKV, Akola, Maharashtra** awarded by AGROTOUCH LLP, Pune Magazine as "KRUSHI VEER" on 5th June 2021.
- **Shri Jagadeesha Naika, SMS (Agromet), DAMU Ballari, Karnataka** received 2nd prize in poster presentation at National conference on "ICT-Based E-Resources for smart agriculture a journey towards Atmanirbhar Bharat post-covid-19 pandemic situation" at University of Agricultural Science, Raichur, Karnataka. He presented a poster on "Impact of ICT tool in dissemination of Agromet Advisory Services (AAS) among the farmers of Ballari district Karnataka."
- **Shri K. M. Praveen., SMS, Agromet, DAMU, Chikkamgaluru Karnataka,** received Young Agrometeorologist Award by the Vigyan Vartha trust on 31st May 2021. 
- **Shri Raushan Kumar, SMS (Agromet), DAMU, Nawada, Bihar** received **Young Scientist Award** for outstanding performance and lasting contribution in the field of Agro-meteorology on the occasion of International Seminar on "Agricultural Sustainability for doubling income in changing climate scenario and market challenges during COVID-19 "ASDICCSCMC-2021" organised by IISR Lucknow, Univ. of Allahabad and International Journal of Agriculture and allied Sciences Allahabad at Dept. of Botany, Univ. of Allahabad, Prayagraj (U.P) during 10-11 April 2021. He presented a paper on "Preparation of Agromet Advisory Bulletin as per weather forecast and importance of weather-based Agromet Advisory in Agriculture." 
- **Mr. Jayashankar Pradhan, SMS (Agrometeorology), KVK, Gajapati, Odisha** received Best Article award for Agriculture discipline entitled "Decision Support System for Agro-Technology Transfer" got published in volume 01 Issue 01 in SABUJEEMA-An International Multidisciplinary e-Magazine. 
- **Shri Sachin Venkatrao Phad, SMS-Agrometeorology, DAMU Nandurbar, Maharashtra** received Emerging Scientist Award in the International Scientist Awards on Engineering, Science and Medicine held on 6th & 7th March 2021, Goa, India, Organized by VDGGOOD Professional Association. 

Awareness Programme

Farmers Awareness Programme (FAP)

Farmers' Awareness Programme (FAP) are being organized in different states by India Meteorological Department (IMD), Agromet Field Units (AMFUs) and DAMUs with objectives of creating awareness about usefulness of Agromet Advisory Services (AAS) and weather/climate information among the farming community and also to help to increase the interaction between the local farming communities and the Meteorological Centres (MCs), AMFUs and Krishi Vigyan Kendra (KVK). Officers also explained Meghdoot and Damini Application during the

FAP. Meghdoot is a joint initiative of the IMD and Indian Council for Agriculture Research (ICAR) to bring high resolution weather forecast based Agromet Advisories to farmers in vernacular. The Meghdoot App allows farmers and interested users to access these advisories in a user friendly manner. Indian Institute of Tropical Meteorology (IITM), Pune developed a Mobile App called “DAMINI” to give alerts on impending lightning activity over the area and The DAMINI App is available from Play Stores. During the FAPs, mobile numbers of farmers were collected to register in mkisan portal.

Total 6 FAPs conducted by 6 AMFUs during the period 01-04-2021 and 30-06-2021

Name of the State	Name of AMFU	Name of the District	Name of the Block	Date of FAP	Village Name	No of Farmers Attended FAP	No. of Farmers using Meghdoot App
Assam	AMFU_Shillongani	Nagaon	Bajiagaon	03-04-2021	Samaguri Grant	35	13
Gujarat	AMFU_Bhachau	Kachchh	Bhachau	05-06-2021	Bhachau	25	20
Gujarat	AMFU_Targhadia	Morbi	Wankaner	28-06-2021	Pipaliyaraj	25	15
Karnataka	AMFU_Naveli	Shivamogga	Shimoga	22-05-2021	Navile	50	45
Puducherry	AMFU_Karaikal	Puducherry	Ozhukarai	14-04-2021	Alankuppam	32	8
Uttar Pradesh	AMFU_Modipuram	Meerut	Meerut	24-06-2021	Modipuram Campus	25	18

Total 136 FAPs conducted by 49 DAMUs during the period 01-04-2021 and 30-06-2021

Name of the State	Name of DAMU	Name of the District	Name of The Block	Date of FAP	Village Name	No of Farmers Attended FAP	No. of Farmers using Meghdoot App
Andhra Pradesh	DAMU Nellore	Nellore	Bogole	01 04 2021	Chennareddypalem	34	12
	DAMU East_Godavari	East Godavari	Rajahmundry Rural	09 04 2021	Kalavacharla	20	17
	DAMU_Nellore	Nellore	Vinjamur	22 05 2021	All Villages In The Block	85	78
	DAMU_Nellore	Nellore	Udayagiri	28 05 2021	All Villages In The Block	78	72
	DAMU_Nellore	Nellore	Nellore Rural	03 06 2021	Nellore Rural	42	40
	DAMU_Kurnool	Kurnool	Yemmiganur	24 06 2021	Bodabanda	42	14
	DAMU_Srikakulam	Srikakulam	Amadalavalasa	27 06 2021	Amadalavalasa	46	13
Bihar	DAMU_Katihar	Katihar	Katihar	07 04 2021	Tingachhiya	30	12
	DAMU_Nawada	Nawada	Narhat	08 04 2021	Khanwa	26	5
	DAMU_Khagaria	Khagaria	Khagaria	26 04 2021	Parmanandpur	30	0
	DAMU_East_Champaran	East Champaran	Motihari	19 05 2021	Virtual Mode 27 Blocks	178	34
	DAMU_Gaya	Gaya	Manpur	26 05 2021	Kvk	22	1
	DAMU_East_Champaran	East Champaran	Pipra Kothi	02 06 2021	Virtual Mode 27 Blocks	198	48
	DAMU_East_Champaran	East Champaran	Motihari	04 06 2021	27 Blocks	207	78
	DAMU_Gaya	Gaya	Manpur	10 06 2021	Kvk	24	2
Chhattisgarh	DAMU_Jashpur	Jashpur	Kainsabel	08 05 2021	Through Google Meet	26	3
	DAMU_Dantewada	Dakshin Bastar Dantewada	Gidam	27 05 2021	Gidam	20	15
	DAMU_Dantewada	Dakshin Bastar Dantewada	Gidam	26 06 2021	Haram	28	10
Gujarat	DAMU_Vadodara	Vadodara	Shinor	01 04 2021	Damnagar	20	0

	DAMU_Narmada	Narmada	Dediapada	04 04 2021	On Campus Kvk Dediapada	4	1
	DAMU_Valsad	Valsad	Kaprada	05 04 2021	Kvk Ambheti	55	4
	DAMU_Narmada	Narmada	Dediapada	04 06 2021	On Campus Kvk Dediapada	33	2
	DAMU_Narmada	Narmada	Dediapada	07 06 2021	On Campus Kvk Dediapada	39	2
	DAMU_Surat	Surat	Olpad	16 06 2021	Barbodhan	34	3
	DAMU_Narmada	Narmada	Dediapada	17 06 2021	Guldacham	23	0
	DAMU_Narmada	Narmada	Dediapada	18 06 2021	Bandi Servan	15	0
Haryana	DAMU_Bhiwani	Bhiwani	Bhiwani	05 04 2021	Dinod	17	4
	DAMU_Kurukshetra	Kurukshetra	Thanesar	06 04 2021	Kvk Premises	50	10
	DAMU_Jind	Jind	Jind	19 04 2021	Manoherpur	13	0
	DAMU_Bhiwani	Bhiwani	Bawani Khera	30 04 2021	Balyali	15	5
	DAMU_Kurukshetra	Kurukshetra	Thanesar	20 05 2021	Google Meet	20	5
	DAMU_Kurukshetra	Kurukshetra	Thanesar	31 05 2021	Google Meet	22	6
	DAMU_Kurukshetra	Kurukshetra	Thanesar	01 06 2021	Google Meet	21	4
	DAMU_Kurukshetra	Kurukshetra	Thanesar	05 06 2021	Kvk Premises	45	9
	DAMU_Sonipat	Sonipat	Kathura	07 06 2021	Kathura	50	42
	DAMU_Jind	Jind	Jind	08 06 2021	Manoherpur And Dhatrath	37	3
	DAMU_Jhajjar	Jhajjar	Jhajjar	09 06 2021	At Kvk Premises	15	2
	DAMU_Mahendergarh	Mahendragarh	Kanina	16 06 2021	Kanina	48	19
	DAMU_Mahendergarh	Mahendragarh	Ateli	17 06 2021	Ateli	39	15
	DAMU_Bhiwani	Bhiwani	Bhiwani	18 06 2021	Kvk Bhiwani	24	6
	DAMU_Mahendergarh	Mahendragarh	Nangal Chaudhry	18 06 2021	Nangal Chaudhary	58	24
	DAMU_Bhiwani	Bhiwani	Bhiwani	19 06 2021	Kvk Bhiwani	44	12
	DAMU_Bhiwani	Bhiwani	Bhiwani	22 06 2021	Kvk Bhiwani	35	8
	DAMU_Jind	Jind	Julana	23 06 2021	Julana	57	7
	DAMU_Fatehabad	Fatehabad	Bhuna	23 06 2021	Dholu	30	13
	DAMU_Jhajjar	Jhajjar	Bahadurgarh	24 06 2021	All Villages	69	15
	DAMU_Jhajjar	Jhajjar	Jhajjar	24 06 2021	All Villages	59	10
	DAMU_Jhajjar	Jhajjar	Badli	25 06 2021	All Villages	48	10
	DAMU_Jhajjar	Jhajjar	Beri	25 06 2021	All Villages	55	7
DAMU_Jhajjar	Jhajjar	Matanhail	26 06 2021	All Villages	51	10	
DAMU_Jhajjar	Jhajjar	Salhawas	26 06 2021	All Villages	47	6	
DAMU_Kurukshetra	Kurukshetra	Thanesar	28 06 2021	Kvk Premises	60	7	
Jammu And Kashmir	DAMU_Baramulla	Baramulla	Sangrama	08 04 2021	Haygam	25	1
Jharkand	DAMU_Godda	Godda	Godda	29 05 2021	Dubrajpur	9	1
	DAMU_Godda	Godda	Godda	31 05 2021	Gvt Kvk	21	3
	DAMU_Godda	Godda	Godda	05 06 2021	Badhauna	18	4
	DAMU_Godda	Godda	Sundarpahari	09 06 2021	Rai Chandana	30	1
	DAMU_Godda	Godda	Sundarpahari	09 06 2021	Chandana	15	2
	DAMU_Godda	Godda	Godda	18 06 2021	Gvt Kvk	50	7
	DAMU_Gumla	Gumla	Gumla	18 06 2021	Gumla District	39	24
	DAMU_Godda	Godda	Boarjor	23 06 2021	Godhiya	16	0

	DAMU_Gumla	Gumla	Sisai	24 06 2021	Samal	14	8
	DAMU_Gumla	Gumla	Ghaghra	26 06 2021	Khambhiyan Ambatoli	20	4
Karnataka	DAMU_Mandya	Mandya	Mandya	01 04 2021	V C Farm	35	3
	DAMU_Chamarajanagara	Chamarajanagar	Chamarajanagar	03 04 2021	Haradanahalli Farm	14	8
	DAMU_Chamarajanagara	Chamarajanagar	Chamarajanagar	30 04 2021	Hardanahalli Farm	20	11
	DAMU_Chamarajanagara	Chamarajanagar	Yelandur	19 05 2021	Online Training	58	24
	DAMU_Kolar	Kolar	Srinivaspur	26 05 2021	Chaldiganahalli	35	5
	DAMU_Chamarajanagara	Chamarajanagar	Yelandur	30 05 2021	Online Training	58	27
	DAMU_Chamarajanagara	Chamarajanagar	Chamarajanagar	05 06 2021	Online Training	48	21
	DAMU_Chamarajanagara	Chamarajanagar	Yelandur	15 06 2021	Online Training	56	34
	DAMU_Mandya	Mandya	Mandya	23 06 2021	V C Farm	37	12
Madhya Pradesh	DAMU_Khandwa	East Nimar	Khandwa	04 04 2021	Kvk	35	7
	DAMU_Neemuch	Neemuch	Neemuch	06 04 2021	Neemuch	25	13
	DAMU_Khandwa	East Nimar	Khandwa	10 04 2021	Sihada	32	9
	DAMU_Khandwa	East Nimar	Khandwa	12 04 2021	Fatehpur Moondi	30	6
	DAMU_Khandwa	East Nimar	Khandwa	22 04 2021	Kvk	10	4
	DAMU_Neemuch	Neemuch	Neemuch	23 04 2021	Neemuch	19	7
	DAMU_Khandwa	East Nimar	Khandwa	30 04 2021	Kvk	14	8
	DAMU_Khandwa	East Nimar	Khandwa	05 05 2021	Kvk	14	6
	DAMU_Shahdol	Shahdol	Sohagpur	06 05 2021	Bhamraha	18	4
	DAMU_Shahdol	Shahdol	Sohagpur	15 05 2021	Bhamraha	30	7
	DAMU_Khandwa	East Nimar	Khandwa	21 05 2021	Kvk	17	10
	DAMU_Khandwa	East Nimar	Khandwa	24 05 2021	Kvk	12	8
	DAMU_Khandwa	East Nimar	Khandwa	28 05 2021	Kvk	20	7
	DAMU_Khandwa	East Nimar	Khandwa	03 06 2021	Kvk	25	12
	DAMU_Khandwa	East Nimar	Khandwa	05 06 2021	Kvk	30	15
	DAMU_Guna	Guna	Aron	05 06 2021	Krishi Vigyan Kendra	28	7
	DAMU_Khandwa	East Nimar	Khandwa	10 06 2021	Kvk	15	8
	DAMU_Shahdol	Shahdol	Gohparu	10 06 2021	Bareli	21	2
	DAMU_Shahdol	Shahdol	Jaisinghnagar	13 06 2021	Amdih	25	6
	DAMU_Guna	Guna	Aron	15 06 2021	Krishi Vigyan Kendra	29	10
	DAMU_Khandwa	East Nimar	Khandwa	17 06 2021	Kvk	12	5
	DAMU_Chhatrapur	Chhatrapur	Nowgong	17 06 2021	Emliya	32	3
	DAMU_Khandwa	East Nimar	Khandwa	21 06 2021	Kvk	12	4
	DAMU_Barwani	Barwani	Sendhawa	23 06 2021	Jogwada	16	6
DAMU_Guna	Guna	Aron	29 06 2021	Araskheda	24	6	
DAMU_Chhatrapur	Chhatrapur	Nowgong	29 06 2021	Nowgong	15	4	
DAMU_Guna	Guna	Aron	30 06 2021	Krishi Vigyan Kendra	36	13	
DAMU_Barwani	Barwani	Pati	30 06 2021	Derwakiya	19	9	
Maharashtra	DAMU_Palghar	Palghar	Vasai	24 04 2021	Vasai	19	7
	DAMU_Buldhana	Buldhana	Buldana	08 05 2021	Online Mode	32	5
	DAMU_Aurangabad	Aurangabad	Aurangabad	24 05 2021	Aurangabad	58	5
	DAMU_Buldhana	Buldhana	Buldana	27 05 2021	Online Mode	41	8
	DAMU_Nagpur	Nagpur	Nagpur	27 05 2021	Online (Through Google Meet)	43	20
	DAMU_Osmanabad	Osmanabad	Tuljapur	29 05 2021		54	42

	DAMU_Nagpur	Nagpur	Nagpur	31 05 2021	Online Through Google Meet	34	8
	DAMU_Palghar	Palghar	Talasari	03 06 2021	Anavir	33	2
	DAMU_Buldhana	Buldhana	Buldana	05 06 2021	Online Mode	55	8
	DAMU_Buldhana	Buldhana	Buldana	09 06 2021	Online Fap	78	10
	DAMU_Nagpur	Nagpur	Nagpur	10 06 2021	Kvk Cicr Icar Nagpur	48	15
	DAMU_Palghar	Palghar	Talasari	10 06 2021	Thakarpada	37	6
	DAMU_Buldhana	Buldhana	Buldana	16 06 2021	Madh	24	10
	DAMU_Nagpur	Nagpur	Nagpur	18 06 2021	Kvk Cicr Icar Nagpur	27	11
	DAMU_Buldhana	Buldhana	Mehkar	21 06 2021	Parda	16	5
	DAMU_Buldhana	Buldhana	Shegaon	23 06 2021	Taroda D	52	15
	DAMU_Palghar	Palghar	Wada	23 06 2021	Gorhe	39	3
	DAMU_Nagpur	Nagpur	Nagpur	24 06 2021	Kvk Cicr Icar Nagpur	43	14
	DAMU_Osmanabad	Osmanabad	Bhoom	30 06 2021		47	28
Rajasthan	DAMU_Dungarpur	Dungarpur	Dovda	27 04 2021	Masaniya Devla Faloj Raghunathpura Ghatau	32	7
	DAMU_Chittorgarh	Chittorgarh	Chittaurgarh	16 05 2021	Ambaberi Barkhera Bassi Barsingh Ka Gurha Chamanpu	45	16
	DAMU_Dungarpur	Dungarpur	Dungarpur	16 05 2021	Beraniya Dabela Damari Faloj Dara Raghunathpura	54	12
	DAMU_Karauli	Karauli	Hindaun	05 06 2021	Sonpal Ka Pura	22	11
	DAMU_Karauli	Karauli	Sapotra	15 06 2021	Chobeki	68	43
	DAMU_Karauli	Karauli	Sapotra	15 06 2021	Dhandurate	55	33
	DAMU_Dungarpur	Dungarpur	Dovda	24 06 2021	Ghatau Devsornath Kahari Hathai Devla Khempur	42	15
Sikkim	DAMU_West_Sikkim	West District	Chumbong Chakung	15 04 2021	Chumbung	24	8
Tamil Nadu	DAMU_Kancheepuram	Kancheepuram	Acharapakkam	03 06 2021	Online Mode	67	2
Uttar Pradesh	DAMU_Bhadohi	Sant Ravidas Nagar	Bhadohi	09 06 2021	Online	23	0
	DAMU_Chitrakoot	Chitrakoot	Ramnagar	16 06 2021	Bhadevra	22	8
	DAMU_Bhadohi	Sant Ravidas Nagar	Bhadohi	24 06 2021	Online Mode	15	4
	DAMU_Baghpat	Baghpat	Khekra	25 06 2021	Sakrod	20	2
	DAMU_Baghpat	Baghpat	Baghpat	29 06 2021	K. V. K. Baghpat	12	12
West Bengal	DAMU_North24Parganas	North 24 Parganas	Gaighata	14 06 2021	Amkhola	30	7
	DAMU_Mursidabad	Murshidabad	Nawada	24 06 2021	Tungi	30	16

Field visit

Officers of IMD, AMFUs and DAMUs made field visits to monitor the standing crop coverage and Pests and Diseases attack on the standing crops and suggest its control measures. They also created awareness among the farmers about Use of Weather based Agromet Advisories and their importance in increasing farm productivity. They explained activities under the GKMS project to the farmers. Officers gave detailed information on Farmers' registration in m Kisan Portal and SMS service, the usefulness of the

MEGHDOOT application, and the DAMU project.

Field visits conducted during the period:

State	DAMU	Place	Date
Bihar	DAMU Sheikhpura	Sheikhpura, Samasbujurg, Bujurg,Barbigaha	21.06.2021
		Sheikhpura, Premchandrabigha, Sheikhopursarai	30.06.2021
Chhattisgarh	DAMU Kanker,	Kapsi village, Kanker block, Kanker district	09.06.2021
		Mohpur village, Kanker block, Kanker district	18.06.2021
	DAMU Rajnandgaon	KVK Surgi	03.04.2021
	DAMU, Dantewada	Dantewada, Geedam , Gumada,Bhairamand and Bade Karali	21.05.2021
		Dantewada, Geedam, Barsur	08.06.2021
		Dantewada, Geedam, Katulnar	09.06.2021
Gujarat	DAMU Vadodara	Saripani village, Naswadi block, Chhotaudepur district	15.04.2021
		Kathmandva village, Bodeli block, Chhotaudepur district	11.05.2021
	DAMU Surat	Kamrej Block, Surat	29.04.2021
	AMFU Anand	Bhantla village, Balasinor block, Mahisagar district	24.06.2021
Haryana	DAMU Jind	Pillukhera and Ritauli village	09.06.2021
		Pillukhera village	16.06.2021
Karnataka	DAMU Ballari	Gudekotte village, Kudligi block, Ballari district	19.04.2021
		Kenchtanahalli village, H.B. Halli block, Ballari district	06.04.2021
	DAMU Kodagu	Somwarpet, Kodagu	19.04.2021
Tripura	DAMU Dhalai	Dabbari village, Salema block, Dhalai district	05.04.2021
West Bengal	DAMU Purulia	Kalajhore village, Kashipur block	23.06.2021
Uttar Pradesh	DAMU Sonbhadra	Ghorawal village, Kadiya block ,Sonbhadra district	28.06.2021
Maharashtra	DAMU Sonapur,	Sakhara village	11.04.2021
		Gogaon village	13.04.2021
		Amgaon village	21.06.2021
		Pulkhal village	25.06.2021
	DAMU Buldhana	Sawana, Tq. Chikhli, dist. Buldhana	21.06.2021
Meghalaya	DAMU West Khasi Hills	Nongshillong, West Khasi Hills, Mawthadraishan block	14.06.2021
West Bengal	AMFU Kakdwip	Kakdwip block, Kalinagar village	21.06.2021
Odisha	AMFU Ranital	Sukinda, Jajpur	05.04.2021

		Bhandaripokhari, Bhadrak	09.04.2021
		Binjharpur, Jajpur	12.04.2021
		Khaira, Balasore	15.04.2021
		Bonth, Bhadrak	19.04.2021
		Korai, Jajpur	22.04.2021
		Basta, Balasore	26.04.2021
		Dharmasala, Jajpur	29.04.2021
		Tihidi, Bhadrak	03.05.2021
		Jajpur	06.05.2021
		Soro, Balasore	10.05.2021
		Chandabali, Bhadrak	13.05.2021
		Soro, Balasore	17.05.2021
		Bonth, Bhadrak	20.05.2021
		Jaleswar, Balasore	24.05.2021
		Basudevpur, Bhadrak	27.05.2021
		Remuna, Balasore	31.05.2021
		Balasore	03.06.2021
		Dhamanagar, Bhadrak	07.06.2021
		Nilagiri, Balasore	11.06.2021
		Bari, Jajpur	16.06.2021
		Baliapal, Balasore	18.06.2021
		Rasulpur, Jajpur	21.06.2021
		Bahanaga, Balasore	24.06.2021
		Bhandaripokhari, Bhadrak	28.06.2021
Uttar Pradesh	Kannauj	Nekpur village, Jalalabad, Kannauj	05.04.2021
		Pachpukhra village, Jalalabad, Kannauj	08.04.2021
		Jalalpur Panwara village, Kannauj	23.04.2021
		Tirwa village, Umarda	06.05.2021
		Kannauj	14.06.2021

Other Awareness Programme

AMFUs participated in different awareness programmes like Kisan Mela, seed day, World Soil day, etc., to inform about activities under GKMS project to the farmers. Officers of GKMS Unit briefed about the usefulness of Agromet Advisory Bulletins, m Kisan portal, and MEGHDOOT App. They displayed different types of charts that depicts the importance of meteorology to Agricultural Sciences and farmers. Most of the Meteorological surface observation instruments were also put on display. During the melas, mobile numbers of farmers were collected and registered in the m Kisan portal. AMFUs/ DAMUs disseminated leaflet on Agromet Advisory Services and created awareness about the Climate Smart Agriculture and Use of Digital Gadgets.

Other Awareness Programme conducted during the period:

- **DAMU, KVK Aurangabad, Maharashtra**, conducted an online training collaboration with the State agriculture Department on "BBF Machines and benefits of BBF Sowing in different crops". Four hundred twenty five farmers (425) were also provided information about seed treatments for the different crops on 2nd June 2021.
- **KVK, Aron, Guna, Madhya Pradesh** celebrated World Environmental Day on 5th June 2021. 28 number of farmers participated in the programme.
- **Smt Shibani Chowdhury, Technical Officer, AMFU, Kakdwip, West Bengal** attended Farmers Meet through google meet on 14th May 2021 for KVK, Narendrapur, Sonarpur block to discuss "Weather forecasting and its importance in agriculture and Importance of weather elements for crop growth."
- **ICAR Krishi Vigyan Kendra Kolar, Karnataka**, conducted Online Webinar on "Importance of Weather forecasting in Agriculture and Agromet Advisory Services" to 35 farmers on 26th May 2021.
- **DAMU, Nawada, Bihar** conducted online training on "Importance of soil test & crop residue management" on 18th June 2021.
- **AMFU, Bhachau, Kachchh, Gujarat** celebrated World Environment Day at the Regional Research Station, SDAU, Bhachau on 5th June 2021 on "Effect of Changing Farm Climate on Soil."
- **DAMU, Bhiwani, Haryana** conducted training on "Safe and judicious use of pesticides" on 5th June 2021.
- **DAMU Jind, Haryana** celebrated World Environment Day at KVK, Jind on 5th June 2021.
- **DAMU, Jind, Haryana** organised a webinar on "Jal Shakti and Other Agricultural Activities" in the Alewa block on 28th June 2021.
- **DAMU, Kannauj, Uttar Pradesh**, organized interaction with The Rural Agricultural Work Experience (RAWE) Students about the Nature of benefits of Agromet Advisory Services for the farmers at Training Hall, KVK, Anaugi



Kannauj on 1st April 2021.

➤ **DAMU, Kannauj, Uttar Pradesh**, organized online World Environment Day on 5th June 2021. Forty five (45) farmers participate in the programme.



➤ **DAMU, Kurukshetra, Haryana** celebrated "World Honey bee day" online on 20th May 2021, "World No tobacco day" at KVK Premises on 31st May 2021, "World Milk day" on 1st June 2021, and "World Environment day" at KVK Premises on 5th June 2021.

➤ **DAMU, Dantewada, Gujarat** conducted:

- All India Radio Broadcast meeting at KVK, Dantewada on 12th April 2021 where KVK scientists and officers from departments like Agriculture, Horticulture, Sericulture, Animal husbandry were present. In this meet year round, agricultural practices were discussed and planned which would be beneficial to farmers.
- Meeting in which different topics like preparation of *Kharif* crops, fruit plantation, cultivation of cucurbits etc. on 29th & 30th April 2021. In this virtual meet, all KVK Dantewada scientists, staff, and about 65 farmers participated.
- Virtual button mushroom training to discuss Button mushroom growing technique with 30 farmers and farm women on 17th May 2021.
- Celebrated online World Honey Bee day on 20th May 2021. The technique to culture honey bee and to obtain honey which would be good source of income to farmers was briefly explained. In this meet 42 peoples, including scientists and farmers, actively participated.
- State level Webinar on World Milk Day on 1st June 2021. About 1466 farmers participated in the Webinar. Farmers also shared their experiences.
- On World Environmental Day, about 50 moringa saplings, mango, lime, and guava were planted in Gothan, Karli by KVK staff on 5th June 2021.
- The online meet of Effective Use of Fertilizers was conducted on 18th June 2021. The topic of discussion was Use of organic fertilizers, soil sampling, biofortification, fruit plantation, etc., among farmers.



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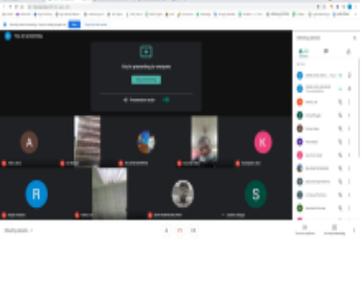
**Agricultural Meteorology Division, India Meteorological Department,
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Photos of FAPs

		
<p style="text-align: center;">Online FAP at DAMU, Aurangabad</p>	<p style="text-align: center;">Online FAP at DAMU, Jashpur Chhattisgarh</p>	<p style="text-align: center;">FAP by DAMU, Jhajjar Haryana</p>
		
<p style="text-align: center;">FAP by AMFU, Khunti, Jharkhand</p>	<p style="text-align: center;">FAP by KVK, Dediapada, Narmada, Gujarat</p>	<p style="text-align: center;">FAP by DAMU, Bhiwani, Haryana</p>
		
<p style="text-align: center;">FAP by AMFU, Bidar, Karnataka</p>	<p style="text-align: center;">FAP by DAMU, Dantewada, Gujarat</p>	<p style="text-align: center;">FAP by AMFU, Khunti, Jharkhand</p>

Photos of Field visits and other programme

			
<p style="text-align: center;">Field visit by DAMU, Buldhana, Maharashtra</p>	<p style="text-align: center;">Field visit by DAMU, Rajnandgaon, Chhattisgarh</p>	<p style="text-align: center;">Field visit by AMFU, Kakkdwip, West Bengal</p>	<p style="text-align: center;">Field visit by DAMU Ballari, Karnataka</p>
			
<p style="text-align: center;">Field visit by KVK Vadodara, Gujarat</p>	<p style="text-align: center;">Field visit by AMFU Anand, Gujarat</p>	<p style="text-align: center;">Field visit by DAMU Purulia, West Bengal</p>	<p style="text-align: center;">Field visit by DAMU, Kanker, Chhattisgarh</p>

			
<p align="center">Field visit by DAMU, Sonbhadra Uttar Pradesh</p>	<p align="center">Field visit by DAMU Dhalai Tripura</p>	<p align="center">Field visit by DAMU, West Khasi Hills Meghalaya</p>	<p align="center">Field visit by DAMU, Dantewada, Chhattisgarh</p>
			
<p align="center">Field visit by DAMU Surat Gujarat</p>	<p align="center">Field visit by BAU, Sabour, Bhagalpur Bihar</p>	<p align="center">Field visit by DAMU Jind Haryana</p>	<p align="center">Field visit by KVK, Sonapur, Maharashtra</p>
			
<p align="center">Field visit by DAMU Kannauj, Uttar Pradesh</p>	<p align="center">Field visit by DAMU Kodagu Karnataka</p>	<p align="center">Field visit by DAMU Bolangir, Odisha</p>	<p align="center">Field visit by DAMU Jind, Haryana</p>